course markers. If the boat successfully completes this run of the test course and the motor was not at full throttle, continue to increase the throttle setting and run the test course passing outside the designated avoidance marker for 42.5 miles per hour or more until the boat fails to complete the test successfully or the boat completes the test course maneuvers successfully at full throttle. The boat successfully completes the test course if the driver is able to maneuver it between the designated avoidance markers without striking the markers and without losing control of the boat or reducing the throttle setting. There must be no change in position of any equipment on board and there must be no change of position of personnel in order to influence the test results. There must be no instability evidenced by oscillating motion in the roll or yaw axes exhibited while negotiating the course.

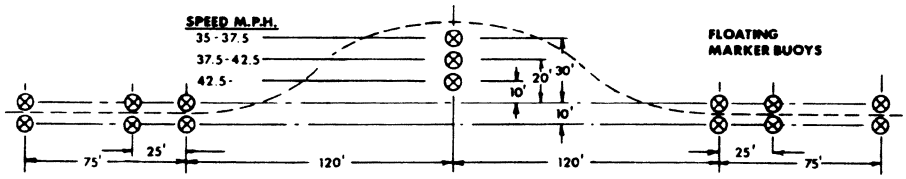
NOTE: It is recognized that operator skill and familiarity with a particular boat and motor combination will affect the test results. It is therefore considered permissible to make a number of practice runs through the test course at any throttle setting.

(6) *Maximum horsepower capacity.* (i) For boats capable of less than 35 miles per hour, the maximum horsepower capacity must be the maximum horsepower with which the boat was able to successfully complete the Quick Turn Test Procedure in §183.53(b)(4) at full throttle or the maximum horsepower determined under the calculations in §183.53(a) of this section.

(ii) For boats capable of 35 miles per hour or more, the maximum horsepower capacity must be the maximum horsepower with which the boat was able to successfully complete both the Quick Turn Test Procedure in §183.53(b)(4) and the Test Course Method in §183.53(b)(5) at full throttle or the calculations in §183.53(a) of this section.

(iii) The maximum horsepower capacity determined in accordance with §183.53(b) must not exceed 40 horsepower.

FIGURE 183.53—BOAT HORSEPOWER CAPACITY TEST COURSE—35 MPH OR MORE



[CGD 85–002, 51 FR 37574, Oct. 23, 1986]

Subpart E [Reserved]

Subpart F—Flotation Requirements for Inboard Boats, Inboard/Outdrive Boats, and Airboats

SOURCE: CGD 75–168, 42 FR 20243, Apr. 18, 1977, unless otherwise noted.

§183.101 Applicability.

This subpart applies to monohull inboard boats, inboard/outdrive boats, and airboats less than 20 feet in length, except sailboats, canoes, kayaks, inflatable boats, submersibles, surface effect vessels, amphibious vessels, and raceboats.

[CGD 75–168, 42 FR 20243, Apr. 18, 1977, as amended by USCG–1999–5832, 64 FR 34716, June 29, 1999]

§183.105 Quantity of flotation required.

(a) Each boat must have enough flotation to keep any portion of the boat above the surface of the water when the boat has been submerged in calm,

fresh water for at least 18 hours and loaded with:

(1) A weight that, when submerged, equals two-fifteenths of the persons capacity marked on the boat;

(2) A weight that, when submerged, equals 25 percent of the dead weight; and

(3) A weight in pounds that, when submerged, equals 62.4 times the volume in cubic feet of the two largest air chambers, if air chambers are used for flotation.

(b) For the purpose of this section, ''dead weight'' means the maximum weight capacity marked on the boat minus the persons capacity marked on the boat.

§ 183.110 Definitions.

For the purpose of this subpart:

Bilge means the area in the boat, below a height of 4 inches measured from the lowest point in the boat where liquid can collect when the boat is in its static floating position, except engine rooms.

Connected means allowing a flow of water in excess of one-quarter ounce per hour from the engine room bilge into any other compartment with a 12 inch head of water on the engine room side of the bulkhead.

Engine room bilge means the area in the engine room or a connected compartment below a height of 12 inches measured from the lowest point where liquid can collect in these compartments when the boat is in its static floating position.

Engine room means the compartment where a permanently installed gasoline or diesel engine is installed, including connected compartments.

Open to atmosphere means a compartment that has at least 15 square inches of open area directly exposed to the atmosphere for each cubic foot of net compartment volume.

Sealed compartment means an enclosure that can resist an exterior water level of 12 inches without seepage of more than one-quarter fluid ounce per hour.

[CGD 77–145, 43 FR 56858, Dec. 4, 1978, as amended by CGD 82–010, 48 FR 8273, Feb. 28, 1983; CGD 85–098, 52 FR 19728, May 27, 1987; CGD 96–026, 61 FR 33670, June 28, 1996; USCG–1999–5832, 64 FR 34716, June 29, 1999; USCG–1999–5151, 64 FR 67176, Dec. 1, 1999]

§ 183.112 Flotation material and air chambers.

(a) Flotation materials must meet the requirements in § 183.114 as listed in Table 183.114 when used in the: (1) Engine room bilge, (2) engine room, or (3) bilge, unless located in a sealed compartment.

(b) Air chambers used to meet the flotation requirements of this subpart must not be integral with the hull.

[CGD 77–145, 43 FR 56859, Dec. 4, 1978; 44 FR 47934, Aug. 16, 1979]

§ 183.114 Test of flotation materials.

(a) *Vapor test.* The flotation material must not reduce in buoyant force more than 5 percent after being immersed in a fully saturated gasoline vapor atmosphere for 30 days at a minimum temperature of 38 °C.

(b) *24-hour gasoline test.* The flotation material must not reduce in buoyant force more than 5 percent after being immersed for 24 hours at 23 plus or minus 2 °C in reference fuel B, of ASTM D 471 (incorporated by reference, see § 183.5).

(c) *30-day gasoline test.* The flotation material must not reduce in buoyant force more than 5 percent after being immersed for 30 days at 23 plus or minus 2 °C in reference fuel B, of ASTM D 471 (incorporated by reference, see § 183.5).

(d) *24-hour oil test.* The flotation material must not reduce in buoyant force more than 5 percent after being immersed for 24 hours at 23 plus or minus 2 °C in reference oil No. 2, of ASTM D 471 (incorporated by reference, see § 183.5).

(e) *30-day oil test.* The flotation material must not reduce in buoyant force more than 5 percent after being immersed for 30 days at 23 plus or minus 2 °C in reference oil No. 2, of ASTM D 471 (incorporated by reference, see § 183.5).